PROJECT 27 6

JOINT INDUSTRY PROJECT

DEVELOPMENT OF GROUTED
TUBULAR JOINT TECHNOLOGY
FOR OFFSHORE STRENGTHENING AND REPAIR

PROGRESS REPORT No. 1 FOR PRESENTATION AT SECOND PSC MEETING ON 24 MARCH 1994

Purpose of Issue	Rev	Date of Issue	Author	Agreed	Approved
Issued to PSC	0	March 1994	DJM	NS	ML

"This document has been prepared by MSL Engineering Limited for the Participants of the Joint Industry Project on Development of Grouted Tubular Joint Technology for Offshore Strengthening and Repair. This document is confidential to the Participants in the Joint Industry Project, under the terms of their contract for participation in the project"

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DOC REF C141R010 Rev 0

MARCH 1994

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MSL

NUMBER	DETAILS OF REVISION							
0	Issued to PSC, March 1994							

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1. INTRODUCTION

This first progress report covers the period from 8 November 1993 to 18 March 1994. It is to be discussed at the second Project Steering Committee (PSC) on 24 March 1994.

2. ACTIONS ARISING FROM PREVIOUS PSC MEETING

The minutes of the first PSC meeting held on 8 November 1993 record the following actions on MSL:-

Action 1 and 3 - Procedures and Specifications

Procedures and Specification have been prepared for materials, fabrication, instrumentation and testing. These will be presented at the PSC meeting.

Action 2 - Pre-load Investigations

A technical report has been prepared and this will be presented and discussed at the Second PSC meeting.

Action 4 - Data capture

A detailed search has indicated that only a limited number of test results exist for grouted tubular joints. These results have been collated and assembled onto a database for assessment.

Action 5 - Lead-Tin Alloy

A meeting has been undertaken between MSL and Nottingham University to discuss lead-tin alloy model testing and potential use of this technique for this project. A discussion paper has been prepared and this will be addressed at the second PSC meeting.

Action 6 - Planning Chart

The project schedule has been updated and will be discussed at the PSC meeting.

Action 7 - ECSC Submission

The European Commission have reviewed the MSL submission for ECSC funding of the project to develop tubular joint technology by grout filling. They have recently informed MSL that although they consider the proposal technically very appropriate, they are unable to support it because they consider it "low priority in their current programme".

Action 8 - Press Release

A press release has been drafted and approval of this will be sought from the PSC.

Action 9 - Meeting re: ECSC Submission

The ECSC decision regarding the MSL proposal was received on 18 March 1994.



3. PROGRESS TO DATE

It is estimated that the overall progress stands at 10% on the original scope. The overall project schedule is given in Appendix A.

4. ACTIVITIES FOR NEXT THREE MONTHS

Subject to approval, the next three month's effort will be directed as follows:-

- Finalise participation agreements
- Receive comments from the Participants on the specifications and procedures presented at the second PSC meeting
- Commence material procurement and fabrication of specimens and test rig
- Instrument test specimen T1
- Commence testing of specimen T1.



TABLES

C141R010 Rev 0 March 1994



Title	Work	MSL	Rev	Issue Date	PSC Meeting				
	Pack No	Identification Number	No		No	Date			
TECHNICAL REPORT No. 1 Specification and Procedure for grouting of test specimens	2	C141R006	0	March 1994	2	24 March 1994			
TECHNICAL REPORT No. 2 Specifications and Procedures for materials, fabrication, instrumentation and testing	2	C141R007	0	March 1994	2	24 March 1994			
TECHNICAL REPORT No. 3 Technical Report on Pre-load Investigations	2	C141R008	0	March 1994	2	24 March 1994			
TECHNICAL REPORT No. 4 Technical paper on lead-tin alloy model tests	2	C141R009	0	March 1994	2	24 March 1994			
PROGRESS REPORT No. 1	1	C141R010	0	March 1994	2	24 March 1994			

Table 1: Document Register

APPENDIX A PROJECT SCHEDULE

SCHEDULE FOR GROUTED JOINTS J.I.P.

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No.	Activity	N	D	J	F	M	A	M	J	J	Α	S	0	N	D	J	F	М	Α	М	J	J	Α
	Management/Coordination																						
GI-2	Spec. instrumentation																					·	
03-4	Spec. grout mix																						
	Spec. tube material																						
	Spec. fabrication specimen																						
	Proc. grouting																						
	Proc. cube preparation																						
	Proc. cube testing																						
	Proc. specimen testing																						
	Design test rig																						
GI-3	Steel material procurement						1																_
0, 5	Grout material procurement			Ī																			
	Stain gauges procurement																						_
	Fabrication specimen																			<u> </u>			
	Fabrication test rig mod.																						L
	Assemble test rig			T																			
	Place strain gauges			T													L			<u> </u>			L
	Dimensional checks for specimen			T													<u> </u>			<u> </u>			L
GJ-4	SCF Tests ungrouted spec.														<u> </u>	<u> </u>	ļ		<u> </u>				L
	Grout fill all joints																			<u></u>			L
	Cure specimens and cubes																						Ļ
GJ-6	SCF-GR T1																	<u>L</u>	<u> </u>	<u> </u>			L
	SCF-GR T3, T5, T7, T9								<u> </u>		L	<u> </u>							<u></u>	<u> </u>			L
	SCF-GR DT2, DT3, DT4, DT5																	<u> </u>	<u> </u>				L
	SCF-GR DT6, DT8, DT9										<u> </u>				L				<u></u>				L
	SCF-GR DT10, DT11												<u> </u>		<u> </u>				L				L
	SCF-GR X1								<u> </u>	<u></u>						<u> </u>							Ļ
GJ-7	ULT-GR TI									<u> </u>						<u> </u>		<u> </u>	<u> </u>	_			L
	ULT-GR T3, T5, T7, T9											<u> </u>				L			<u> </u>	_			Ļ
	ULT-GR DT2, DT3, DT4, DT5											<u> </u>					<u> </u>	<u></u>	<u> </u>	<u> </u>			L
	ULT-GR DT6, DT8, DT9																			<u> </u>			L
	ULT-GR DT10, DT11												<u> </u>			<u> </u>							L
	ULT-GR X1																						Ļ
GJ-8	Material coupon tests												<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>			Ļ
	Cube tests																						Ļ
GJ-9	Collect data																		<u> </u>				Ļ
	Present data			I																		<u> </u>	1
	Reduce data																					<u> </u>	1
GJ-1	Offshore installation study														<u> </u>	<u> </u>		<u> </u>	_	_	 		-
8	1 Report of test results SCF														_	_		<u> </u>	1	┡	 		-
	Report T1-SCF/ULT								1	<u></u>				_		2 11000	<u></u>					_	-
	Report SCF-GR/ULT												<u> </u>							1		<u> </u>	-
	Interim reports					æ			ж			- Table 1			_	-	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	2000	1
	Draft final report					al outside services								<u></u>	<u> </u>		ļ	<u> </u>		-	<u> </u>		4
	Agreed final report									***************************************					ļ			<u> </u>	<u> </u>	<u> </u>		- Company	
	PSC Meetings	*		women of the last	THE REAL PROPERTY.	æ	STILL STREET		36	-tujarammo	www.delillahee	NORTH PARTIES	**************************************	- mercentore		HUMBINDOVAL	***************************************	L					L



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